ECG® Circuit Designers — Demonstration Circuits

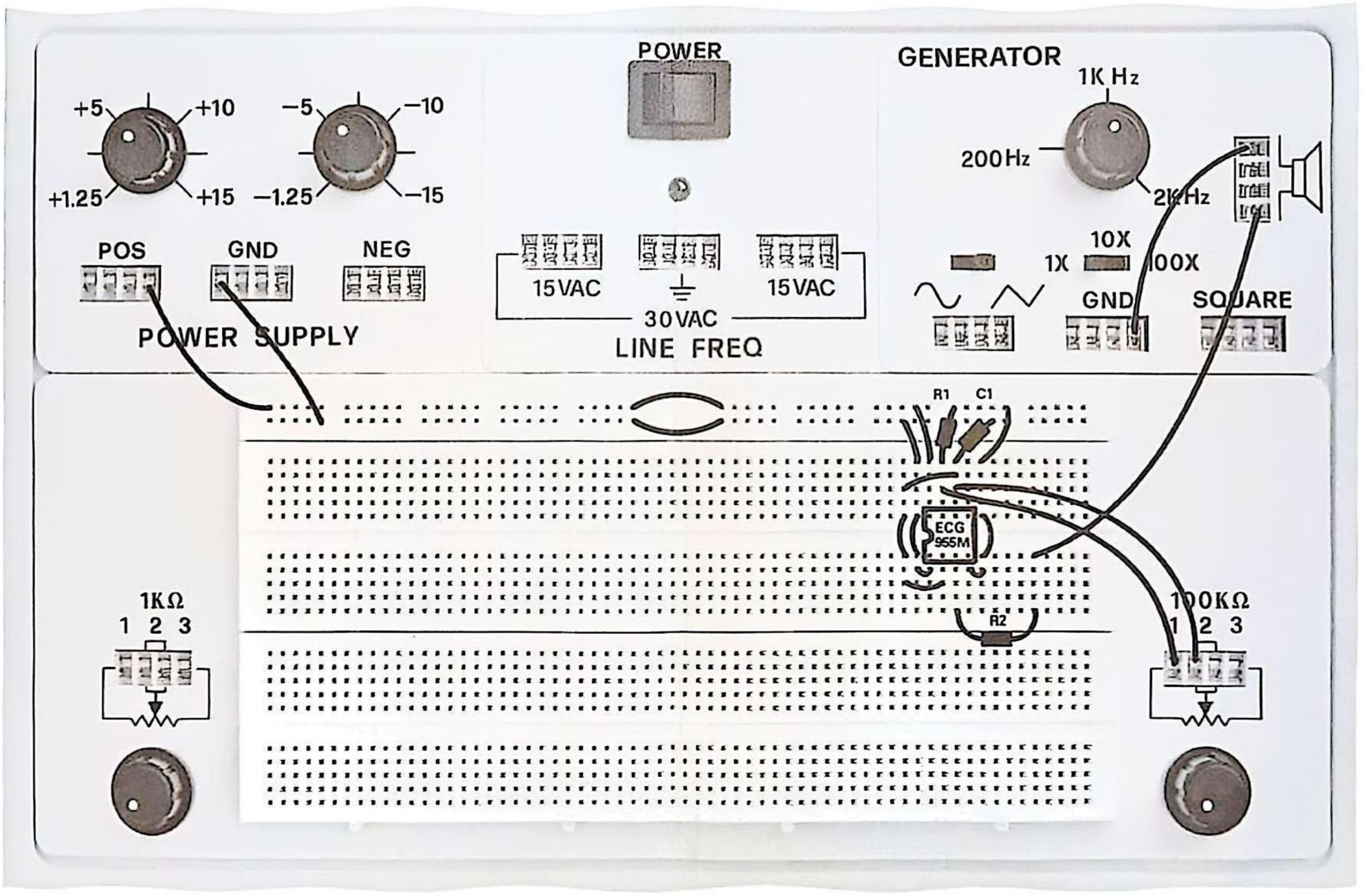
Analog Model ACD100

This circuit utilizes an ECG955M timer IC as an astable multivibrator (tone generator).

Construct the circuit with the listed parts according to the diagram. Before switching on the ACD100, turn the knob of the positive power supply to +1.25. Now set the knob of the 100KΩ potentiometer to the midpoint of its range. Switch the power on to the ACD100 and slowly turn the positive power supply knob to +10. If all connections have been made properly a tone will be emitted from the built-in speaker. If no tone is heard, turn off the power and recheck all wiring connections. To control the frequency of the tone, rotate the knob of the 100KΩ potentiometer. To vary the volume of the tone, turn the knob of the positive power supply.

Parts List

Part	Description
ECG955M	IC, Timer
R1	Resistor 270KΩ 1/4W
R2	Resistor 270 Ω 1/4W
C1	Capacitor .022 μF



ECG® Circuit Designers — Demonstration Circuits

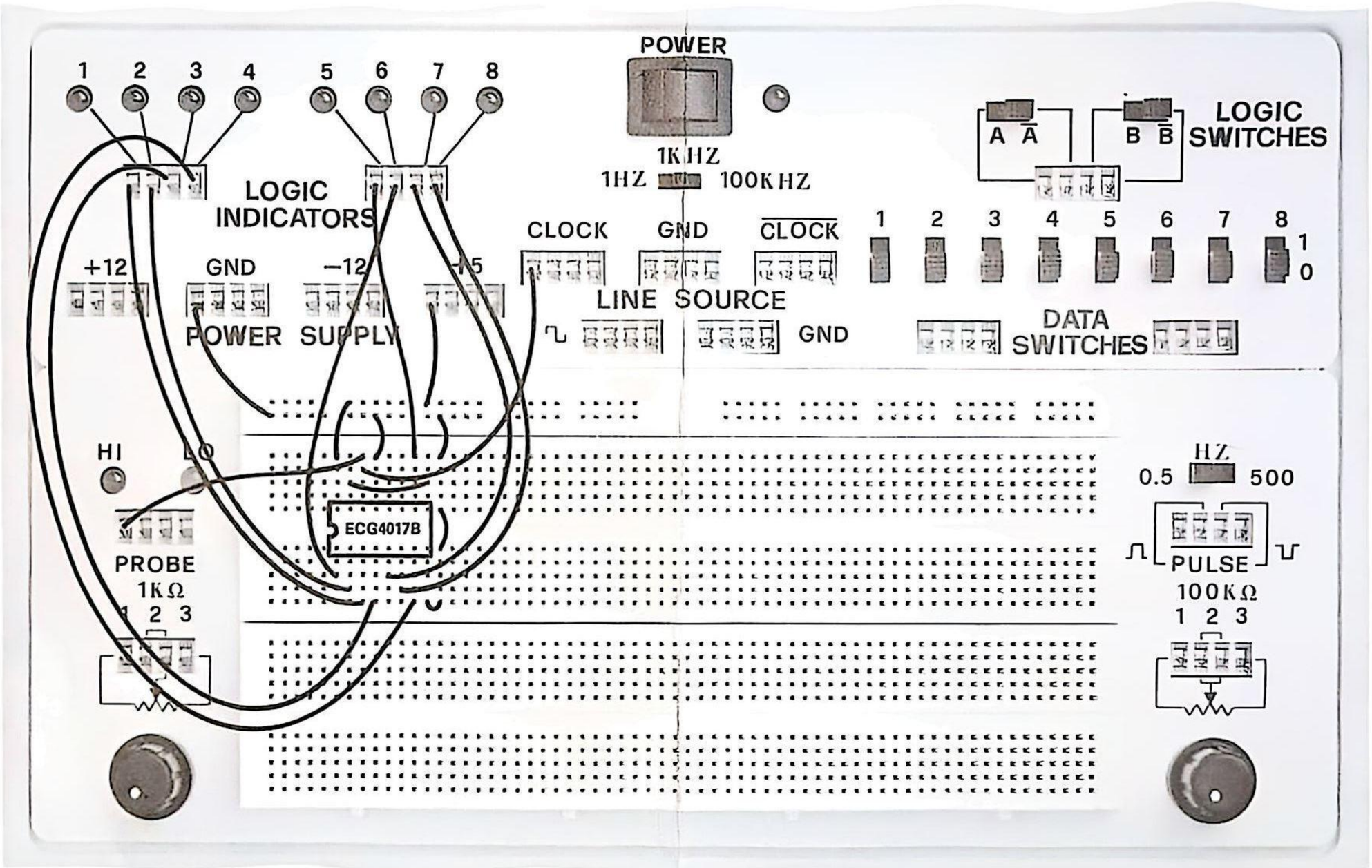
Digital Model DCD100

This circuit utilizes an ECG4017B decade counter IC to drive 8 logic indicators in sequence.

Construct the circuit according to the diagram. Set the clock frequency switch to 1 Hz position. Switch the power on to the DCD100. The LED's marked HI (Red) and LO (Green) will alternately light and the LED's marked 1 through 8 (Red) will light in sequential order. If these operations do not occur, switch the power off and recheck all wiring connections.

Parts List

Part	Description
ECG4017B	Decade Counter



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